



Surface Mount Schottky Bridge Rectifier Reverse Voltage 20 to 100 Volts Forward Current 2.0 Ampere

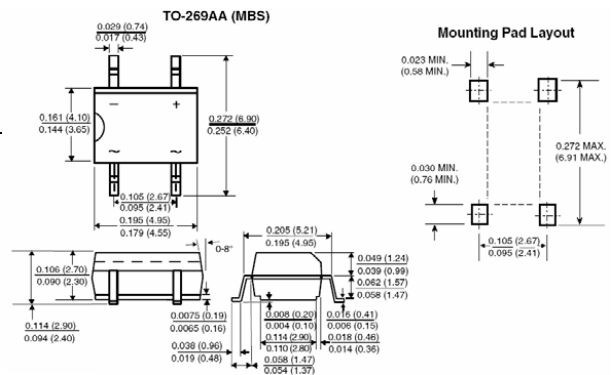
Features

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ High surge overload rating:30A peak
- ◆ Saves space on printed circuit boards
- ◆ High temperature soldering guaranteed:260°C/10 seconds



Mechanical Data

- ◆ Case:Molded plastic body over passivated junctions
- ◆ Terminals: plated leads solderable per MIL-STD-750, Method 2026
- ◆ Mounting Position:Any
- ◆ Weight:0.078 oz.,0.22g



Maximum Ratings & Electrical Characteristics

(T_A=25°C unless otherwise noted)

Parameter	Symbol	MB22S	MB24S	MB26S	MB28S	MB210S	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	20	40	60	80	100	V
Maximum RMS voltage	V _{RMS}	14	28	42	56	70	V
Maximum DC blocking voltage	V _{DC}	20	40	60	80	100	V
Maximum Average forward output current	I _{F(AV)}	2.0					A
Peak forward surge current 8.3 MS single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50					A
Maximum instantaneous forward voltage at 2.0A	V _F	0.55		0.70		0.85	V
Maximum DC reverse current at Ta=25°C	I _R	30					µA
rated DC blocking voltage per leg Ta=100°C		7					mA
Typical thermal resistance per leg(Note1)	R _{θJA}	80					°C/W
	R _{θJL}	20					
Operation junction on temperature range	T _J	-55 to +125					°C
Storage temperature range	T _{STG}	-55 to +150					°C

Notes: 1. Thermal resistance from junction to ambient and from junction to lead P.C.B. mounted on 0.2x0.2"(5.0x5.0mm) copper pad areas.



RATINGS AND CHARACTERISTIC CURVES

($T_A = 25^\circ\text{C}$ unless otherwise noted)

FIG. 1 - FORWARD CURRENT DERATING CURVE

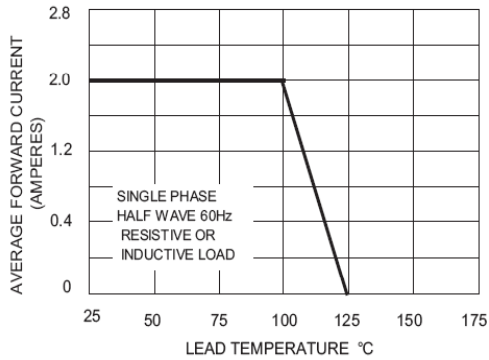


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

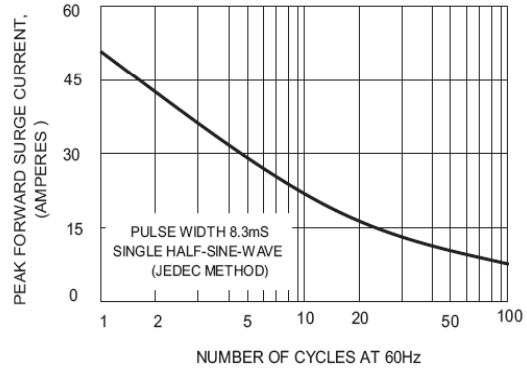


Fig. 3 - Typical Instantaneous Forward Characteristics

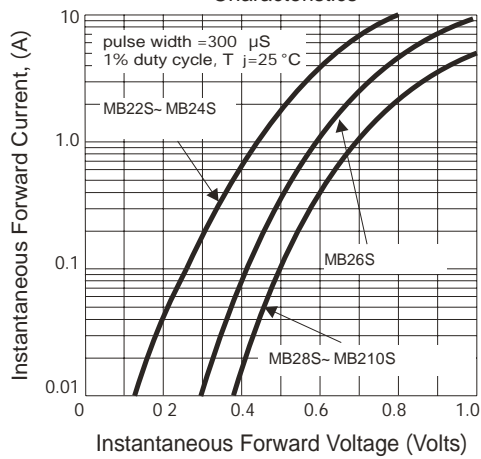


FIG. 5-TYPICAL REVERSE CHARACTERISTICS

